

From: [Coleman, Sam](#)
To: [Gray, David](#)
Subject: Re: Arkema - Response Action
Date: Thursday, August 31, 2017 9:52:36 AM

Yes. Other expert opinions?

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Sent from my iPhone

On Aug 31, 2017, at 9:50 AM, Gray, David <gray.david@epa.gov> wrote:

To address the fire? It won't help with explosion potential.

From: Coleman, Sam
Sent: Thursday, August 31, 2017 9:49 AM
To: Gray, David <gray.david@epa.gov>
Subject: Re: Arkema - Response Action
What about from the air?

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On Aug 31, 2017, at 9:47 AM, Gray, David <gray.david@epa.gov> wrote:

Response Action – Why explosion of remaining containers is not preventable?

After days of attempting to cool the container, deterioration of site conditions resulted in Harris County Fire Department ordering the plant to be evacuated and closed on August 30, 2017 because the explosion threat makes it unsafe for all responders to remain in the

blast zone.

Vessels have temperature probes but they don't measure hot spots creating great uncertainty as to exactly when each container will explode.

Cooling engines on at least 5 of the 8 containers failed due to flood damage. The remaining 3 containers are not safely accessible due to explosion potential and are running out of fuel.

Facility access is still flooded further hampering access to replace engines or deliver fuel, even if site conditions were not dangerous.

Harris County Response estimates all remaining containers to explode within 12 hours today due to temperatures above 90 degrees. Therefore, entry for response staff poses an unacceptable risk.

There is no known alternative to return the containers to a safe condition.